Reside GT/FFO 14 OCT 2005

PATENT COOPERATION TREATY

PCT

REC'D 2 6 OCT 2006

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

G1 C		See Form PCT/IPEA/416			
Applicant's or agent's file reference	FOR FURTHER ACTION	Priority date (day/month/year)			
123029-2009	International filing date (day/month/year)				
International application No.	14 A 2004 (14 04 2004)	14 April 2003 (14.04.2003)			
PCT/US04/11489 International Patent Classification (IPC)	or national classification and IPC				
	/68(2006.01)				
IPC: C07H 1/00(2006.01);C12Q 1/ USPC: 536/23.1,24.3,24.33,124,127					
Applicant					
UNIVERSITY OF HOUSTON		actablished by this International Preliminary			
This report is the internal Examining Authority und	ational preliminary examination report, er Article 35 and transmitted to the appli	established by this International Preliminary cant according to Article 36.			
2 This REPORT consists o	f a total of sheets, including this cove	er sheet.			
1	panied by ANNEXES, comprising.	i i			
1	. 1 D	otal of sheets, as ionows.			
a. [] (sent to the applications of the	e description, claims and/or drawings w	hich have been amended and are the basis of			
a. (sent to the applicant and to the International Bureau) a total of total of the proof of the description, claims and/or drawings which have been amended and are the basis of the sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 this report and/or sheets containing rectifications).					
I and Section	3 60.) Of the Administrative Free as	ti dem contain an amendment			
sheets whi	ch supersede earlier sheets, but which the	is Authority considers contain an amendment application as filed, as indicated in item 4 of			
that goes t	evond the disclosure in the hiterarch	••			
Box No. I	and the Supplemental Box.	ate type and number of electronic carrier(s)) related thereto, in electronic form only, as			
b. (sent to the Inc	ning a sequence listing and/or tables	related thereto, in electronic form only, as sequence Listing (see Section 802 of the			
indicated in	the Supplemental Box relating	related thereto, in electronic form carry, as			
Administrative	instructions).				
4 This report contains in	lications relating to the following items:	Į.			
4. This report contains inc	Basis of the report				
Box No. II	m. 1 - 11	and industrial			
	of original with regard to novelty, inventive step and industrial				
Box No. III	applicability				
Box No. IV	. c fingention	to immediate step of			
	Reasoned statement under Article 3.	5(2) with regard to novelty, inventive step or systems supporting such statement			
Box No. V	Reasoned statement under Article 3 industrial applicability, citations and e	xplanations supporting such statement			
Box No. VI	Certain documents cited				
Box No. VII	Certain defects in the international app	plication			
Box No. VIII	Guttin observations on the internation	nal application			
	Deta of C	ompletion of this report			
Date of submission of the demand 03 October 2006 (03.10.2006)					
15 November 2004 (15.11.2004)		Nofficer of ROMA			
Name and mailing address of the It	PEA US	WILL DINGS ()			
Mail Stop PCT, Attn: IPEA/ Commissioner for Patents	Ipevesh I	Chard/			
P.O. Box 1450 Alexandria, Virginia 22313	1450 Telephon	e No. 571-272-1600			
l m No. (571) 273-3201					
Form PCT/IPEA/409 (cover sheet)(.	April 2005)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/11489	

1. With regard to the language, this report is based on: the international application in the language in which it was filed. a translation of the international application into, which is the language of a translation furnished for the				
the international application in the language in which it was filed. a translation of the international application into, which is the language of a translation furnished for the				
a translation of the international application into, which is the language of a translation furnished for the				
purposes of:				
international search (under Rules 12.3 and 23.1(b))				
publication of the international application (under Rule 12.4(a))				
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))				
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
the international application as originally filed/furnished				
the description:				
pages 1-46 as originally filed/furnished pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the claims:				
pages 47-69 as originally filed/furnished				
pages* NONE as amended (together with any statement) under Article 19				
pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the drawings:				
pages 1-17 as originally filed/furnished				
pages* NONE received by this Authority on pages* NONE received by this Authority on received by the received by this Authority on received by the received by the received by the received				
pages NONE received by this Authority on				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded." Form PCT/IPEA/409 (Box No. I) (April 2005)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/11489

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
N	ovelty (N)	Claims 1-69	YES	
		Claims NONE	NO	
ī	eventive Step (IS)	Claims NONE	YES	
		Claims 1-69		
Ti	idustrial Applicability (IA)	Claims 1-69	YES	
, (, , , , , , , , , , , , , , , ,		Claims NONE	NO	

2. Citations and Explanations (Rule 70.7)
Claims 1-69 lack an inventive step under PCT Article 33(3) as being obvious over Gao et al; McLean et al and Sundberg et al.

Gao et al. disclose RNA and DNA oligonucleotide synthesis and their assay (col.1, lines 10-20). The oligonucleotide synthesis is disclosed (col.32, Example IV). Furthermore, the nucleotide phosphoramidite are disclosed (Fig.1).

McLean disclose a method for the synthesis of a plurality of oligonucleotides (abstract). The oligonucleotide may be formed from precursors of individual nucleotides by conventional technology used for synthesizing oligonucleotides, for example by using phosphoramidite chemistry on an automated oligonucleotide synthesizer (cols.1-2).

Sundberg et al. disclose a variety of derivatized supports and methods for their preparation, which are useful in the preparation of peptides, oligonucleotides or other small organic molecules (col.2, lines 10-50 and figures).

Claims 1-69 have industrial applicability as defined by PCT Article 33(4).